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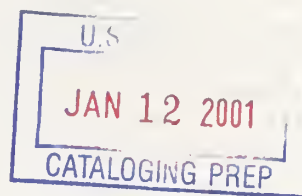
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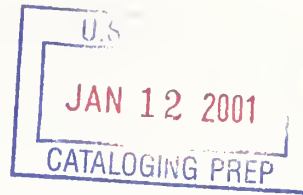
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4. Six evaluation proposals were submitted for funding in FY94. Three of these were approved by the CAC and prioritized in the following order:

- (1) Gummy Stem Blight resistance
M. Kyle - \$12,000
- (2) Resistance to Zucchini Yellows Mosaic Virus
J. Norton and G. Boyhan - \$4,700
- (3) Evaluation of the Genetic Diversity of Cucumis and Cucurbita using isozymes and phenotypic characters
J. McCreight and J. Staub

These recommendations will be forwarded to the NPGS for funding consideration. Two other proposals submitted, the development of a cucurbit genetic stock center and the development of new cucumber inbreds, were considered high priorities by the CAC; but the committee felt that evaluation funds were not appropriate for these projects. The CAC recommended that alternate sources of funding should be solicited for these proposals.

5. Several accessions with the same cultivar name are currently being maintained at NSSL. The CAC will work with the crop curators to determine which accessions are true duplicates and can be bulked or discarded.

6. Molly Kyle was elected to membership on the Cucurbit CAC. The next meeting of the committee will be in conjunction with the Cucurbotaceae 94 meeting in late October, 1995 at Padre Islands, TX.



SYNOPSIS OF THE CUCURBIT CROP ADVISORY COMMITTEE MEETING JULY 24, 1993 - NASHVILLE, TN

List of Attendees: J. McCreight (Chair), M. Bohning, G. Boyhan, P. Bretting, K. Cook, G. Elmstrom, K. Elsey, M. Kyle, G. Lovell, K. Reitsma, C. Thomas, T. Whener, M. Widrlechner, D. Wolf.

AGENDA ITEMS:

1. A discussion was held on the development of core collections for cucurbit crops. The committee felt that the cucurbit collections are very small and therefore the development of core collections was not necessary. However, a core might assist curators in responding to blanket requests for an entire collection. In most case, curators have already identified test arrays to handle these requests. It was also noted that requests for an entire collection have decreased over the last few years most likely due to the increase of information in GRIN.
2. Jim McCreight reported on the recent trip to collect Cucumis species in India as part of the USAID / India exchange program. Approximately 600 accessions were collected and these will be incorporated into the NPGS collection at Ames, IA. This material will receive a high priority for seed increase.
3. Reports were presented on the current activities at each of the Plant Introduction Stations responsible for cucurbit germplasm.
 - a. Ames, IA (NC-7): The main emphasis is to increase the Indian material and ensure that all material is backed up at the National Seed Storage Laboratory (NSSL). All evaluation data generated by the CAC has been entered into GRIN. Approximately 5,050 accessions have been distributed to date.
 - b. Geneva, NY (NE-9): The collection currently consists of 637 C. maxima accessions and Trichosanthes. They have distributed over 250 accessions to date.
 - c. Griffin, GA (S-9): The most active collections are Citrullus and C. moschata. They have budgeted in FY94 for a cucurbit curator, however the hiring freeze within USDA has held up this position. 85 watermelon accessions were increased in 1993. A discussion then ensued on using other cooperators including scientists in China who have volunteered to assist in the increase. The CAC recommended that the material should not be increased in China due to disease problems and the lack of control by the curator. However, they did feel that private industry could help at least in part with increasing the watermelon collection. Gil Lovell will contact U.S. cooperators to determine their interest.

4. Wild Daucus carota and other species in the Mediterranean and Balkans.
5. Additional 'open pollinated' lines developed by U.S. growers.
6. Foreign cultivated or wild Allium or Daucus held by U.S. industry or private collections.

5. Three evaluation projects were funded in FY 93 including:

- a. Evaluation of Allium germplasm for pungency
- b. Evaluation of Allium germplasm for resistance to Alternaria
- c. Isozyme evaluation of the Allium sativus collection

Proposals for FY 94 funding will be solicited and submitted to the NPGS by October 1, 1993.

7. The next meeting of the Root & Bulb CAC will be in conjunction with the 1994 ASHS meeting in Corvallis, OR.



SYNOPSIS OF THE ROOT AND BULB CROP ADVISORY COMMITTEE
JULY 25, 1993 - NASHVILLE, TN

List of Attendees: P. Simon (Chair), L. Baker, J. Behling, M. Bohning, P. Bretting, R. Freeman, I. Goldman, R. Hannan, M. Hutton, L. Pike, W. Randall, K. Reitsma, V. Rubatsky, T. Walters, M. Widrlechner.

AGENDA ITEMS:

1. Mark Bohning reported on the current status of the National Plant Germplasm System (NPGS) and the Germplasm Resources Information Network (GRIN). A question and answer period ensued.
2. A discussion was held on the Root and Bulb CAC's membership. Vernon Shattuck requested to be removed from the committee. Three additional members were unanimously elected including Irwin Goldman, Jon Behling and Vince Rubatsky.
3. Status reports for each crop were presented by the respective curators. Allium cepa and fistulosum are maintained at the Northeastern Regional Plant Introduction Station (NE-9) and are currently being increased either in the greenhouse at Geneva or by several cooperating seed companies. NE-9 is currently performing germination tests on their entire Allium collection. The Western Regional Plant Introduction Station (W-6) increased 178 Allium clones this year representing 15 species (the majority of which were A. sativus). Alternate seed increase locations are also being explored including Maricopa, AZ and Molokai, HI. The Daucus and Pastinaca collections are maintained at the Northcentral Regional Plant Introduction Station (NC-7) in Ames, IA. Fourteen new Daucus accessions and 2 Pastinaca accessions have been received in the last year. The Daucus collection currently contains 777 accessions (31 of which are currently being increased) and the Pastinaca collection consists of 41 accessions, mainly cultivars. A discussion was then held on the most appropriate location to maintain these genera. The CAC recommended that all Allium, Daucus, and Pastinaca accessions, along with resources (manpower, equipment and funding) to maintain them, should be transferred to W-6.
4. A list of acquisition priorities was reviewed and approved by the committee. The current priorities include:
 1. Short day onions from around the world.
 2. Daucus germplasm from China, India and Southeast Asia.
 3. Wild Allium of the Cep and Phyllodon groups from Russia and the Middle East.



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SYNOPSIS OF THE NEW CROPS CROP ADVISORY COMMITTEE MEETING SEPTEMBER 29, 1993 - NEW ORLEANS, LA

AGENDA ITEMS:

1. Mark Bohning presented an overview of the National Plant Germplasm System (NPGS), the National Germplasm Resources Laboratory (NGRL), and the Germplasm Resources Information Network (GRIN). A question and answer period ensued.
2. Dennis Ray reported on the establishment of operational guidelines for the committee. Each subcommittee of the Crop Advisory Committee (CAC) will adopt a standardized format for the Crop Surveys for the priority genera covered by their group. These Crop Surveys will be updated annually and used to develop/evaluate exploration and evaluation proposals submitted to the CAC. Descriptor lists also need to be established for each of the priority genera. The crop surveys will be completed and submitted to the CAC chair by March 1, 1994.
3. Status reports were submitted by each of the subcommittee chairs. A discussion was then held on the possibility of transferring the responsibility of crambe to the New Crops CAC. It was finally decided that crambe has become commercially important and should remain under of the Crucifer CAC. The medicinal crops subcommittee has used the GAO report format to determine where interested researchers and collections exist. It was suggested that this might be a useful exercise for all subcommittees to follow.
4. A discussion was held on the need to have subcommittees or interested individuals develop crop surveys for genera which are new crops but not currently considered by the CAC. The committee unanimously agreed that additional genera can be added as long as interest exists. Jules Janick then indicated he will work on developing priorities for new fruit crops.
5. Dennis Ray was elected Chair of the New Crops CAC. The next meeting of the committee will be in conjunction with the 1994 ASA meetings in Seattle, Washington.

collection over the next year. The CAC recommended that the U.S. bean curator should attempt to visit CIAT at least one time per year to confer on genetic resource and collection issues.

6. A discussion was held on the committee's membership. Paul Gepts was elected as the new Chair of the CAC. George Kotch of Asgrow Seed and Steve Antonius of Sacramento Valley Milling were selected to replace members rotating off the committee.

7. An exploration proposal to collect Phaseolus germplasm and rust samples which co-evolved in the Andean region of South America in 1994 was presented by Jim Steadman. Even though the proposal was submitted late for review by the appropriate Technical Committee, the CAC stressed the need to obtain this material and endorsed the proposal. It will be forwarded to the Plant Exploration Office in Beltsville, MD for funding consideration. Paul Gepts suggested that Daniel Debouck should be contacted to see what areas he has collected to prevent duplication of effort. Gepts also reported that he is part of a group attempting to obtain approval from the Bolivian government to collect Phaseolus genetic resources in that country.

8. The next meeting of the Phaseolus CAC will be in conjunction with the W150 meetings in Hawaii in January of 1995.



SYNOPSIS OF THE PHASEOLUS CROP ADVISORY COMMITTEE MEETING OCTOBER 30, 1993 - BOISE, ID

List of Attendees: J. Kelly (Chair), M. Basset, M. Bohning, G. Emery, P. Gepts, K. Grafton, R. Hannan, G. Hosfield, S. Magnuson, P. Miklas, J. Myers, J. Neinhuis, H. Schwartz, M. Silbernagel, S. Singh, R. Stavely, D. Wallace.

AGENDA ITEMS:

1. Three evaluation proposals were submitted to the CAC for review and were prioritized as follows:
 - a. Seed coat color genetics - M. Basset
 - b. Development of a Phaseolus Core Collection using RAPD's - J. Neinhuis
 - c. Completion of pure line development from Rust Resistant genes - R. Stavely.
These recommendations will be forwarded to the National Program Leader for Horticultural crops for funding consideration in FY94.
2. Reports were presented on the evaluation projects funded in 1993. Mark Basset discussed interactions between several genes influencing seed coat. Rennie Stavely reported that 51 pureline accessions have been developed to date with multiple rust resistance. These will receive PI numbers and be incorporated into the National Plant Germplasm System (NPGS).
3. Mark Bohning presented an update on the NPGS and the Germplasm Resources Information Network (GRIN). Topics discussed included:
 - a. The National Genetic Resources Program (NGRP)
 - b. The Convention on Biological Diversity
 - b. Core Collections
 - d. The third revision of GRIN
 - e. International cooperative agreements with Russia and India
4. A discussion was held on the development of a core collection for *Phaseolus*. CIAT is also developing a core and there will be some duplication between the U.S. and CIAT cores. A subcommittee was appointed to establish the criteria for developing a U.S. *Phaseolus* core collection.
5. Rich Hannan reported on the current activities regarding the U.S. *Phaseolus* collection. The BCMV cleanup project was postponed for one year due to the loss of the technician running the project. This position has been re-filled and the project will proceed in 1994. Several accessions were received from Bulgaria and these will be screened for redundancy before being incorporated into the collection. The bean genetic stocks will be incorporated into the NPGS

facility related to forage and turf grasses include bamboo, pearl millet and sorghum.

C. Western (W-6: Pullman, WA)

The collection consists of 12,833 accessions of which 559 were increased in 1993. 3,317 accessions were distributed in 1993, the main genera of interest were *Agropyron*, *Poa*, *Festuca* and *Phalaris*. Staff at W-6 are currently working with the USDA-ARS Forage and Range Research Laboratory in Logan, UT to consolidate the Triticeae collection at Pullman. The group at Logan will continue to be responsible for genetic stocks and will provide technical expertise to Pullman. The ability to increase wind-pollinated grasses at Pullman is limited by space and W-6 is working with the Pullman Plant Materials Center to acquire additional land.

5. Mark Bohning presented an update on the National Plant Germplasm System (NPGS) and the Germplasm Resources Information Network (GRIN). An answer and question period ensued.

6. The next meeting of the Forage and Turf Grass CAC will be in conjunction with the Grass breeders Conference August 15-16, 1994 in Lincoln, NE.



SYNOPSIS OF THE FORAGE & TURF GRASS CROP ADVISORY COMMITTEE MEETING
NOVEMBER 2, 1993 - CINCINNATI, OH

List of Attendees: B. Burson (Chair), A. Baltensperger, R. Barker, C. Berg, V. Bradley, M. Casler, J. Chatterton, R. Clark, C. Dewald, M. Engelke, D. Floyd, W. Hanna, K. Henson, M. Hussey, S. Kresovich, V. Lehman, G. Lovell, R. Luhman, J. McPerson, W. Meyer, H. Moharram, D. Stair, D. Sleper, A. Sotomayer, C. Taliaferro, K. Vogel, P. Voigt, G. White, M. Widrlechner, R. Wynia.

AGENDA ITEMS:

1. Three plant explorations conducted in 1993 were discussed. These included:

- A. Jenson and Johnson - China
- B. Sleper and West - Western Mediterranean
- C. Engelke and Taliaferro - China

The committee has also endorsed a proposal by Johnson and Sheehy to collect in Mongolia.

2. A revised descriptor list was distributed and reviewed. These descriptors will be incorporated into GRIN and used to characterize the grass germplasm in the National Plant Germplasm System (NPGS).

3. A discussion was held on developing a core collection for each of the major grass genera. A subcommittee was appointed to study the concept in more detail and forward recommendations to the entire committee.

4. Reports were presented by each of the Regional Plant Introduction Stations responsible for grass germplasm.

- A. North Central (NC-7: Ames, IA)

Approximately 4,400 accessions are maintained of which 1,600 are available for distribution. The majority of the accessions represent three genera, *Echinochloa*, *Panicum*, and *Setaria*. Accessions not currently available are either in the process of being regenerated, have low germination or have not been taxonomically identified.

- B. Southern (S-9: Griffin, GA)

The collection consists of 7,188 accessions representing 106 genera. Of the 7,188 accessions, 584 are maintained as clonal material. The main genera in the collection include *Bothriochloa*, *Brachiaria*, *Chloris*, *Cynodon*, *Dicanthium*, *Digitaria*, *Eleusine*, *Panicum*, *Paspalum*, *Pennisetum* and *Zoysia*. Other crops maintained at the

that Norm Taylor should work with the other 2 curators (S. Greene, NE9; and B. Morris, S9) to ensure that they have a good understanding of the material and records.

S. Greene, Geneva, NY: All evaluation data has been uploaded into GRIN and consolidated into 1 descriptor list. The passport data for red and white clover is being reviewed and corrected with help from G. Pederson and R. Smith. Subsets of the *T. pratense* and *T. repens* core collections were regenerated under cages. The CAC recommended that 100 grams of *T. pratense* and 35 grams of *T. repens* seed should be maintained for each accession in the core collection. The curator along with R. Smith and G. Pederson will review all Geneva accessions which have not been assigned PI numbers to determine which should be added to the collection and which should be discarded.

B. Morris, Griffin, GA: B. Morris reported that he has replaced Gil Lovell as curator of the annual clovers. They have placed the entire base collection of *Trifolium* species in freezers at -20 degrees centigrade. A discussion was held on an appropriate place to increase seed of cross-pollinated annual clovers.

D. Brenner, Ames, IA: The *Melilotus*, *Coronilla* and other special purpose forage legumes are maintained at Ames, IA. A report was distributed describing the activities on these genera in 1993. The descriptor list for *Melilotus* will be reviewed and updated at the next CAC meeting.

4. A discussion was held on plant germplasm exploration. A report summarizing the trip to southwestern Bulgaria was distributed. One hundred twenty-six (126) accessions were collected representing 44 *Trifolium* species and 12 other forage legume species. A second collection of forages was also conducted in northern Xinjiang, China. Two hundred forty-three (243) accessions were collected including 17 representing 4 *Trifolium* species. A report summarizing the trip to Georgia will be distributed at the next CAC meeting. A proposal to collect *Trifolium* species in the western U.S. in 1994 was reviewed and approved unanimously.

5. The next meeting of the Clover and Special Purpose Legume Crop Advisory Committee will take place in conjunction with the 13th *Trifolium* Conference, June 22, 1994 at Charlottetown, Prince Edward Island, Canada.



SYNOPSIS OF THE CLOVER & SPECIAL PURPOSE FORAGE LEGUME
CROP ADVISORY COMMITTEE MEETING
NOVEMBER 7, 1993 - CINCINNATI, OH

List of Attendees: K. Quesenberry (Chair), M. Bohning, D. Brenner, P. Bretting, N. Chatterton, J. Elgin, S. Greene, S. Kresovich, J. McFerson, B. Morris, J. Mosjidis, W. Ocumpaugh, G. Pederson, R. Smith, J. Steiner.

AGENDA ITEMS:

1. A discussion was held on the current Clover and SPL evaluation program. Evaluations conducted in 1993 included:

- a. Cyanogenesis of *T. repens*
- b. Ruminal protein degradation in *T. pratense*
- c. Resistance to *Meloidogyne graminicola* for *T. repens*
- d. Resistance to clover yellow vein virus for
for *T. subterraneum*
- e. Resistance to rootknot nematode for *T. spp.*
- f. RFLP and RAPD analysis on *T. incarnatum*
- g. Winter hardiness on hairy vetch (to be completed in 1994)

Data for these evaluations have been incorporated into GRIN except for the RFLP and RAPD information. J. Steiner will work with the curator and GRIN DBMU staff to determine the most useful way of entering this data into GRIN.

Six evaluation proposals were submitted for funding in FY94. Additional proposals will be accepted up to December 1, 1993. After this the CAC will prioritize the proposals and forward its recommendation to the NPGS.

2. Mark Bohning reported on current issues regarding the National Plant Germplasm System (NPGS) including the Convention on Biological Diversity, the 1993 NPGS research workshop, core collections, the 1994 CAC chairs workshop and the Germplasm Resources Information Network (GRIN). A question and answer period ensued.

3. Reports were presented by the 3 *Trifolium* curators.

N. Taylor, Lexington, KY: 31 accessions were added to the collection in 1993 with 3 of these representing new species (*T. rusbyi*, *T. volanski* and *T. erubescens*). Seed increases were performed on 25 accessions. The committee will contact N. Taylor to ensure that all of this material receives PI numbers and is incorporated into GRIN. The committee also recommended

6. Drs. Panella and Goldman presented a proposal to produce a genome map for *Beta*. Several committee members indicated that the Europeans have been involved in developing these maps for some time and should be consulted to avoid duplication of effort. The CAC passed two recommendations including:

- a. Dr. Panella and Dr. Goldman should proceed with their proposal by reviewing the current work going on in Europe and then developing viable complimentary proposals to determine the genetic diversity of the U.S. Beta collection.
- b. Dr. Panella, Dr. Doney and Dr. Smith should draft a proposal to present to industry to facilitate the collection of mapping data currently existing internationally.

7. The next meeting of the Sugarbeet Crop Advisory Committee will be in conjunction with the ASSBT meetings held in New Orleans, Louisiana, in the spring of 1995.



SYNOPSIS OF THE SUGARBEET CROP ADVISORY COMMITTEE MEETING
November 8, 1993 - Cincinnati, OH

List of Attendees: D. Doney (Chair), M. Bohning, P. Bretting, L. Campbell, E. Goldwin, J. Kern, N. James, P. Lundeen, L. Panella, J. Saunders, G. Smith, J. Stander.

AGENDA ITEMS:

1. Priorities for collecting *Beta* germplasm were discussed. Three priority areas were identified including:
 - a. India - collecting in India through a USAID grant was discussed. The CAC approved of the trip and a formal exploration proposal will be forwarded to the National Plant Germplasm System (NPGS).
 - b. Pakistan - John Gallion indicated he may be traveling to Pakistan in 1994 and will attempt to collect *Beta* species.
 - c. Iran - the committee indicated that exchange with Iran is possible due to good contacts with scientists in that country. The committee will pursue this over the next year.
2. Progress reports were presented on the sugarbeet evaluation program. Several traits were evaluated in 1993 including: agronomic characteristics, curly top, root maggot, nematodes, rhizomania, aphanomyces, rhizoctonia, and virus yellows. These evaluations will be continued in 1994.
3. Peter Lundeen presented a status report on the U.S. *Beta* collection maintained at the North Central Regional Plant Introduction Station (NC-7) in Ames, Iowa. Seventy-two (72) accessions were increased in 1993. Additional accessions will be planted in 1994 along with testing Pullman, WA as a potential increase site. Other alternative sites including Ft. Collins, CO and Maricopa, AZ will also be explored.
4. A discussion was held on the need to develop a core collection for *Beta*. The possibility of using RFLP's to accurately develop this core was also discussed. A formal recommendation will be forthcoming from the CAC.
5. Devon Doney reported on the World Beta Network Conference held in Fargo, ND in August 1993. The final report should be completed and distributed by the end of the year. The next conference will take place in Turkey in 1995.

5. A discussion was held on the current budget for the cotton germplasm collection. The committee approved a 7 year cycle for seed increase rather than the present 5 year cycle due to the increased costs of seed regeneration and maintenance. The CAC also authorized a letter supporting the Winter Nursery in Mexico and expressing concern over the need for additional funds for germplasm maintenance.



SYNOPSIS OF THE COTTON CROP ADVISORY COMMITTEE (CAC) MEETING
JANUARY 6, 1994 - SAN DIEGO, CA

List of Attendees: W. Smith (Chair), J. Jenkins, K. Jones,
R. Kohel, B. McMichael, S. Oakley, E. Percival, R. Percy,
B. Phipps, M. Stewart, P. Tugwell.

AGENDA ITEMS:

1. An update was presented on the U.S. cotton collection maintained in College Station, TX. The collection consists of 5,919 accessions, representing the cultivated and wild species. 1,164 accessions were distributed in 1993. Seed increases for 1993-94 include 425 in the winter nursery in Mexico, 50 in Costa Rico, 300 at Weslaco Texas, and 175 in greenhouses either in Weslaco or College Station. 2,000 accessions were representing *G. arboreum* and *G. herbaceum* were requested from India in exchange for sending them 2,000 accessions from our collection. This material is currently being increased in India and will be forwarded to College Station as soon as it is available. A situation has arisen in Colombia where the curator has inadequate funds to properly maintain their cotton germplasm. The possibility of developing a back-up collection in the U.S. is being explored.

2. A discussion was held on germplasm acquisition priorities. The most important area to obtain new material from is Guatemala. Other areas which need to be explored include Mexico, Honduras, Panama, Brazil, Colombia, parts of Asia and Southern Africa. The long range plant acquisition report prepared by the CAC will be revised to reflect these new priorities. Dr. Mac Stewart reported that the collection trips to Australia resulted in 100 new accessions and the identification of one new species. Proposals to initiate exchange with China and Uzbekistan will also be developed.

3. The asiatic cottons are currently under evaluation by Dr. Mac Stewart who reported that low levels of resistance to reniform and rootknot nematode, variation in gossypol and variation in pubescence levels have been identified. These results will be published in the next issue of Crop Science.

4. A discussion was held on the winter nursery in Mexico. An increase in fees resulted in fewer people using the nursery which will cause the operation to run a deficit this year. Ed Percival has sent 50 accessions to Costa Rico with the French winter nursery to assess the possibility of using that program in the future in case the Mexican program is closed.

5. The Plant Germplasm Operations Committee (PGOC) meeting minutes and the NC-7 ARS-CSRS/SAES review were discussed. A question and answer period ensued.

6. The possibility of meeting at Ames, IA or Fargo, ND during the 1994 growing season was discussed. A final meeting date will be determined after contacting all committee members.



SYNOPSIS OF THE SUNFLOWER CROP ADVISORY COMMITTEE MEETING JANUARY 14, 1993 - FARGO, ND

List of Attendees: G. Seiler (Chair), M. Bohning, P. Bretting, G. Brewer, C. Charlet, T. Gulya, C. Jan, J. Lofgren, J. Miller, A. Schneiter, M. Straley.

AGENDA ITEMS:

1. Two sets of descriptors currently exist for *Helianthus*:
 - a. NC7-HELIANTHUS - information recorded by the North Central Regional Plant Introduction Station (NC-7) at Ames, Iowa.
 - b. SUNFLOWER - information recorded from CAC approved evaluation programs.

A discussion then ensued on combining the 2 descriptor sets in order to facilitate access to the information. Recommendations provided by the committee will be implemented in the development of 1 sunflower descriptor set.

2. Priorities for the Sunflower evaluation program were reviewed. The committee concluded that the current priorities continue to reflect the most important needs of the sunflower community with the exception of changing Gray Sunflower Seed Weevil to a lower priority.
3. Progress reports were presented on the current sunflower evaluation program. Screening for rust (races 3 & 4) have been completed on the currently available sunflower accessions. These races of rust are still considered a high priority by the CAC and as additional accessions become available, they should continue to be screened for the disease. The collection is also being screened for resistance to sclerotinia, phomopsis, downy mildew (races 2, 3, & 4), alternaria, red sunflower seed weevil, banded sunflower moth, and the sunflower moth.
4. A report on the current status of the U.S. *Helianthus* collection maintained at the North Central Regional Plant Introduction Station (NC-7) in Ames, Iowa was presented by Peter Bretting. A new sunflower curator was appointed in March of 1993. The collection currently consists of 3,608 accessions of which 31% are available for distribution. Over 2,300 packets of achenes were distributed in 1993 making the sunflower collection one of the most active at NC-7. Approximately 150 accessions are planned for increase in 1994. Passport data on older accessions will be reviewed and updated in GRIN.

other national and international systems was stressed. Disseminating the information from GRIN to the user community was discussed. The development of a PC based query package (pcGRIN) has improved accessibility to the data and it was suggested to use media such as the Soybean Genetics Newsletter and Agronomy News to inform plant scientists of its availability.

2. A discussion was held on the germplasm exchange project with the People's Republic of China. Five hundred (500) lines adapted to the northern United States were received in 1993. These lines are currently being increased and evaluated. Preliminary evaluations have shown that the material is unique and a few new genes have been identified. An additional 500 lines adapted to southern growing conditions have been requested and will be received in 1995. These lines will be increased and evaluated in Stoneville, MS and incorporated into the U.S. germplasm collection. The committee stressed the importance of this project and expressed their appreciation to all the groups involved in its development.
3. A report was presented on the current status of the U.S. Soybean Germplasm Collection maintained in Urbana, IL. The collection currently consists of 13,500 Glycine max and 2,000 G. spp. accessions. Over 13,000 accessions were distributed representing 342 requests (37 U.S. states and 22 foreign countries). In 1993, 1735 accessions were increased in Urbana, IL and Stoneville, MS. Ninety-six (96) accessions in maturity group X were also increased in Puerto Rico.
4. Tom Devine and John Thorne were elected to second terms as chair and vice-chair respectively. The next meeting of the Soybean CAC will be in conjunction with the Soybean Breeders Workshop in St. Louis in February of 1995.



SYNOPSIS OF THE SOYBEAN CROP ADVISORY COMMITTEE MEETING FEBRUARY 16, 1994 - MEMPHIS, TN

List of Attendees: T. Devine (Chair), G. Ablet, J. All, M. Bohning, R. Boerma, C. Coble, D. Egli, J. Hicks, M. Kenty, W. Kenworthy, F. Schmidt, A. Schmitthenner, J. Thorne, L. Young.

AGENDA ITEMS:

1. The 3 subcommittees of the Soybean CAC met for 1 hour prior to the full meeting, and summaries of the discussions were presented by the chairs.

Acquisition Subcommittee:

Over 60 isolines were submitted by E. Hartwig and incorporated into the collection. Additional isolines may also be submitted. The committee continued to express a need to incorporate varieties developed by private industry into the collection. A letter will be distributed soliciting this material. A discussion was also held on the need to maintain mapping lines in the germplasm collection. A subcommittee was appointed consisting of Roger Boerma (Chair), Claudia Coble and Tom Devine to address the issue in more detail.

Evaluation Subcommittee:

Three major pest problems were identified including Area Web Blight, Sweetpotato Whitefly, and the stink bug complex. A discussion then ensued on the need to screen the collection for resistance to these traits. Several members felt they should be evaluated but that no reliable screening techniques existed. The CAC recommended that techniques to evaluate these traits should be explored and once developed, evaluation projects should be pursued. A draft proposal to develop a core collection was presented and the CAC endorsed its development.

Operations Subcommittee:

The main discussion centered around the direction of the Germplasm Resources Information Network (GRIN) and the need to link with other national and international databases. A new GRIN database is under development and will be completed in June of 1994. The need to link the U.S. plant genome databases and



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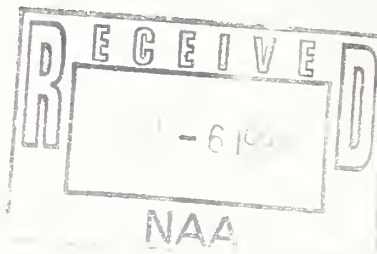
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20705

May 31, 1994

SUBJECT: National Plant Germplasm System (NPGS) Directory and
Crop Advisory Committee (CAC) Synopses

TO: National Plant Germplasm System
Directory Holders

FROM: Mark A. Bohning *MAB*
National Germplasm Resources Laboratory



~~AREA DIRECTOR~~
~~ASSOCIATE AREA DIRECTOR~~
FILES *Li Bohning*

I have enclosed a new updated National Plant Germplasm System Directory and a set of synopses of Crop Advisory Committee meetings which have taken place over the last few months. If you have any questions, please feel free to contact me at any time.

Enclosures

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